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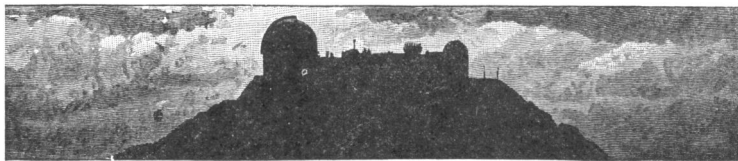
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NOTES FROM PACIFIC COAST OBSERVATORIES.

NOTES ON THE ECLIPSE EXPEDITION TO FLINT ISLAND.

The personnel of the Crocker Eclipse Expedition to Flint Island will consist of Director CAMPBELL, Astronomer PERINE, Astronomer AITKEN, Assistant ALBRECHT, of the Lick Observatory Staff, and Professor E. P. LEWIS, of the Department of Physics of the University of California. The observers of the Smithsonian Institution Expedition will consist of Director C. G. ABBOT and Mr. ALFRED MOORE, of the University of California. The carpenter, two workmen, cook, and cook's assistant will bring the total number up to twelve, to which the Commander of the U. S. gunboat "Annapolis" desired the party to be limited.

The expedition expects to sail from San Francisco on November 22d, and return on January 25th.

F. K. McCLEAN, Esq., of Tunbridge Wells, England, expects to carry an expedition to Flint Island in a chartered vessel. It will be a pleasure for us to have him and his colleagues as associates on the island.

Meteorological data collected during the month of January, 1907, are very encouraging. The eclipse will occur at about 11:18 A.M. At this hour of the day the sky was clear and fine on about twenty-two days in the month.

Mt. HAMILTON, September 23, 1907. W. W. CAMPBELL.

SPECTRA OF THE LIMB AND CENTER OF THE SUN.

In a comparative study of the spectrum of the Sun at the center and near the limb, the following points of difference have been found:—

1. The great majority of the lines that are strengthened in sun-spots are strengthened near the limb.
2. The great majority of the lines that are weakened in spots are weakened near the limb.